

Scott M. Matheson
Governor.



STATE OF UTAH
DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

150 West North Temple, P.O. Box 2500, Salt Lake City, Utah 84110

Alvin E. Rickers, Director
Room 426 801-533-6121

James O. Mason, M.D., Dr.P.H.
Executive Director
801-533-6111

DIVISIONS

Community Health Services
Environmental Health
Family Health Services
Health Care Financing
and Standards

OFFICES

Administrative Services
Health Planning and
Policy Development
Medical Examiner
State Health Laboratory

533-6146

OCT 3 1980

RECEIVED
OCT 7 1980

DIVISION OF
OIL, GAS & MINING

Karen Jackson
Plateau Resources
772 Horizon Drive
Grand Junction, CO 81501

RE: Mine Water Impoundment

Dear Ms. Jackson:

We have reviewed the plans and information regarding the proposed Plateau Resources Tony M uranium mine water impoundment at the alternate site near Shootering Canyon, Garfield County. The Armstrong Engineers and Associates, August 1980 reports Existing Mine Water Impoundment Structures, Geo-technical Study and Proposed Design, plans 1-11 and specifications for the alternate site impoundment area were reviewed.

As a result of our review, the plans for the Plateau Resources Tony M Mine water impoundment are approved and a construction permit as constituted by this letter is hereby issued provided at least 3 feet of freeboard is maintained on all dams.

It is also recommended that the pipeline tank be equipped with a maximum level float control to prevent overfilling the tank due to excess pumping or blockage of the discharge line.

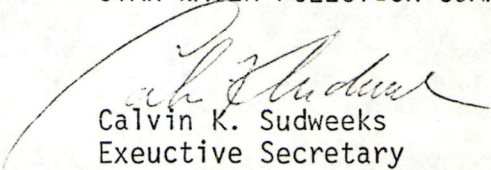
The impoundment will have an area of approximately 20 acres and 300 acre feet of storage to totally contain and evaporate 65 gpm of mine water. The impoundment area will be lined with 2 feet of compacted clay or have an equivalent natural clay soil to reduce the seepage to 1×10^{-7} cm/sec. The 35 foot high earth dam will have an impervious clay core and 25 foot crest width. Two peripheral dams 3 feet high will also be constructed. Any water intercepted in the toe drain or relief wells will be pumped back to the impoundment.

A quarterly report of the flow rate, pond level, quantity and analysis of any water intercepted in the toe drain or pressure relief wells, shall be submitted to this office.

The existing impoundment may be used until the new system is operational and then as a backup system.

Sincerely,

UTAH WATER POLLUTION COMMITTEE



Calvin K. Sudweeks
Executive Secretary

SRM:1af

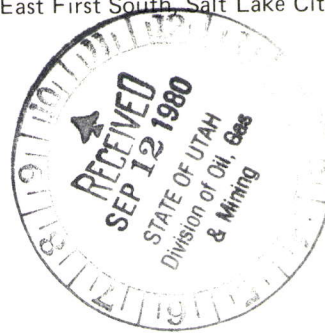
cc: Oil, Gas & Mining
Five County AOG
Southwestern District Health Dept.
Water Resources



General Office: 772 Horizon Drive, Grand Junction, CO 81501
Corporate Office: 212 West Michigan Avenue, Jackson, MI 49201
Registered Office: 141 East First South, Salt Lake City, UT 84111

(303) 245-5460
(517) 787-8415
(801) 534-0734

September 12, 1980



9/23/85
Mr. James Smith
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, UT 84116

Dear Mr. Smith:

Pursuant to our conversation on September 3, 1980, additional information for Plateau's mine water impoundment area is attached.

The following related materials were hand delivered to your office:

1. Safety Analysis of "Existing Mine Water Impoundment Structure".
2. Specifications for alternate site impoundment area earth dam and appurtenant construction.
3. Geotechnical study and proposed design for alternate site impoundment area earth dam.

Other contacts are Mr. Steve McNeal of the Bureau of Water Pollution Control, Division of Environmental Health and Mr. Bob Morgan, Dam Safety, Office of the State Engineer.

Please contact me if you have any questions.

Sincerely,

Karen E. Jackson

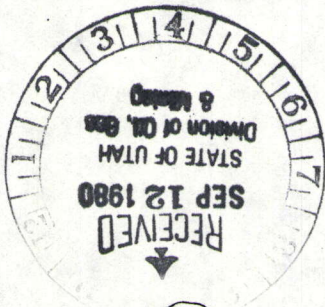
Karen E. Jackson
Licensing Coordinator

KEJ:kfj

Attachments: Index Map
Reclamation Plan for Impoundment Areas
Topsoil, Stockpile Location Map
Water Quality Data
Archeological Map
Armstrong Engineering's Reclamation Letter
Reclamation Contract - 2 copies

Salt Lake City

The outlined area requires
additional archeological
clearance.



Location: Salt Lake B. & M.

Quad:

Project: 42-80-4

Map 2

Series: Central
Utah

Date: 7/2/80

SITE 42Ga1883
IN THE
SHITAMARING CANYON LOCALITY
OF
GARFIELD COUNTY, UTAH

Special Map

Legend:

Survey Area

Prehistoric

Quarry

Existing Roads

Contour Lines

Creek Bed

.25

Scale



RECEIVED
SEP 12 1980
STATE OF UTAH
Division of Oil, Gas
& Mining

PLATEAU RESOURCES LIMITED	
TONY M & LUCKY STRIKE MINE INDEX MAP	
Scale 1" = 2000'	Drafted by LWR Date 3/10/1980
Checked by B. J. C. Date 8/1/1980	Approved by Date 1/1/81